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**REMARKS**

Turning first to the Examiner's drawing objection, He is most respectfully requested to reconsider his requirement to label the elements shown schematically in FIG. 4. These elements are not indicated by symbols, but rather are shown in outline form and they comprise elements of groups indicated by reference numerals in the specification.

As to the non-English characters in FIGS. 6 and 7, the identity of the boxes is irrelevant and the characters have no simple translation. They also are also shown only as examples and the actual information indicated is only for example as described in the specification as described in paragraphs 0031-0033.

The Examiner's objection to FIG. 8 is well taken, and attached hereto is a proposal for correction.


The claims, particularly the two independent claims have been amended extensively to emphasize their distinctions over the art of record and the Examiner is most courteously requested to reconsider his rejection in light of this amendment. In addition the Examiner's well taken objections to claims 1 and 5 have been addressed as requested.

Specifically independent claims 1 and 5 have been amended to further define what is believed to be an important and patentable distinction over the Wiley et al reference. That is applicants invention is directed to a method and apparatus for testing a plurality of different and selected, external electrical devices without the direct use in the testing apparatus of a personal computer. The personal computer is separate from the testing device and method and is utilized only to load a testing program into the testing device and thus forms no function in the actual testing, determination and display of the test results.

Wiley, on the other hand utilizes an integrated testing apparatus into the total electrical device for testing its components during the operation of the device. Thus this device cannot and does not test a variety of selected external electrical devices as now very specifically claimed. Also Wiley et al specifically uses a personal computer as an integral part of his overall device unlike applicant.

In view of the foregoing, favorable action is most respectfully requested.

Respectfully submitted:

  
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Inspection item	Inspection		Measurement		Work		Pulser	pulsarlevelTPS	Comparator level		Trigger 1
	Non-inspection	break revolution	break revolution	power supply	Charge	Charge			vehicle speed	speed	
1 Diode check	TRUE	FALSE	0	0	1 NONE	NONE	NONE	0	0	0	0
2 Diode check	TRUE	FALSE	0	0	1 NONE	NONE	NONE	0	0	0	0
3 Diode check	TRUE	FALSE	0	0	1 NONE	NONE	NONE	0	0	0	0
4 Diode check	TRUE	FALSE	0	0	1 NONE	NONE	NONE	0	0	0	0
5 Diode check	TRUE	FALSE	0	0	1 NONE	NONE	NONE	0	0	0	0
6 Capacitor check	TRUE	FALSE	0	0	0 NONE	NONE	NONE	0	0	0	0
7 Circuit check	TRUE	FALSE	0	0	14 NONE	NONE	NONE	0	0	0	0
8 Power supply clamp check	TRUE	FALSE	0	0	21 NONE	NONE	NONE	0	0	0	0
9 Power supply clamp check	TRUE	FALSE	0	0	27 NONE	NONE	NONE	0	0	0	0
10 Auto-choke check	TRUE	FALSE	0	0	14 NONE	NONE	NONE	0	0	0	0
11 Side stand check	TRUE	FALSE	0	0	14 DC	NONE	NONE	0	0	3	0
12 CPU port check	TRUE	FALSE	0	0	14 NONE	NONE	NONE	0	3	2.5	30
13 Trigger start check	TRUE	FALSE	500	500	14 ch 60	pu pos 60	pu pos 60	5	1	0	30
14 Initial check	TRUE	FALSE	1500	1500	14 ch 60	pu pos 60	pu pos 60	20	1	0	30
15 Ignition check	TRUE	FALSE	6000	6000	14 ch 60	pu pos 60	pu pos 60	20	1	0	30
16 Stop check	TRUE	FALSE	2000	2000	14 ch 60	pu pos 60	pu pos 60	14	1	0	30
17 Discharge short	TRUE	FALSE	0	0	0 NONE	NONE	NONE	0	0	0	0

FIG. 8